

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P478525

Luminaire Tested: **IFLD-S-SA6D-735-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478525
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-735-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (96) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

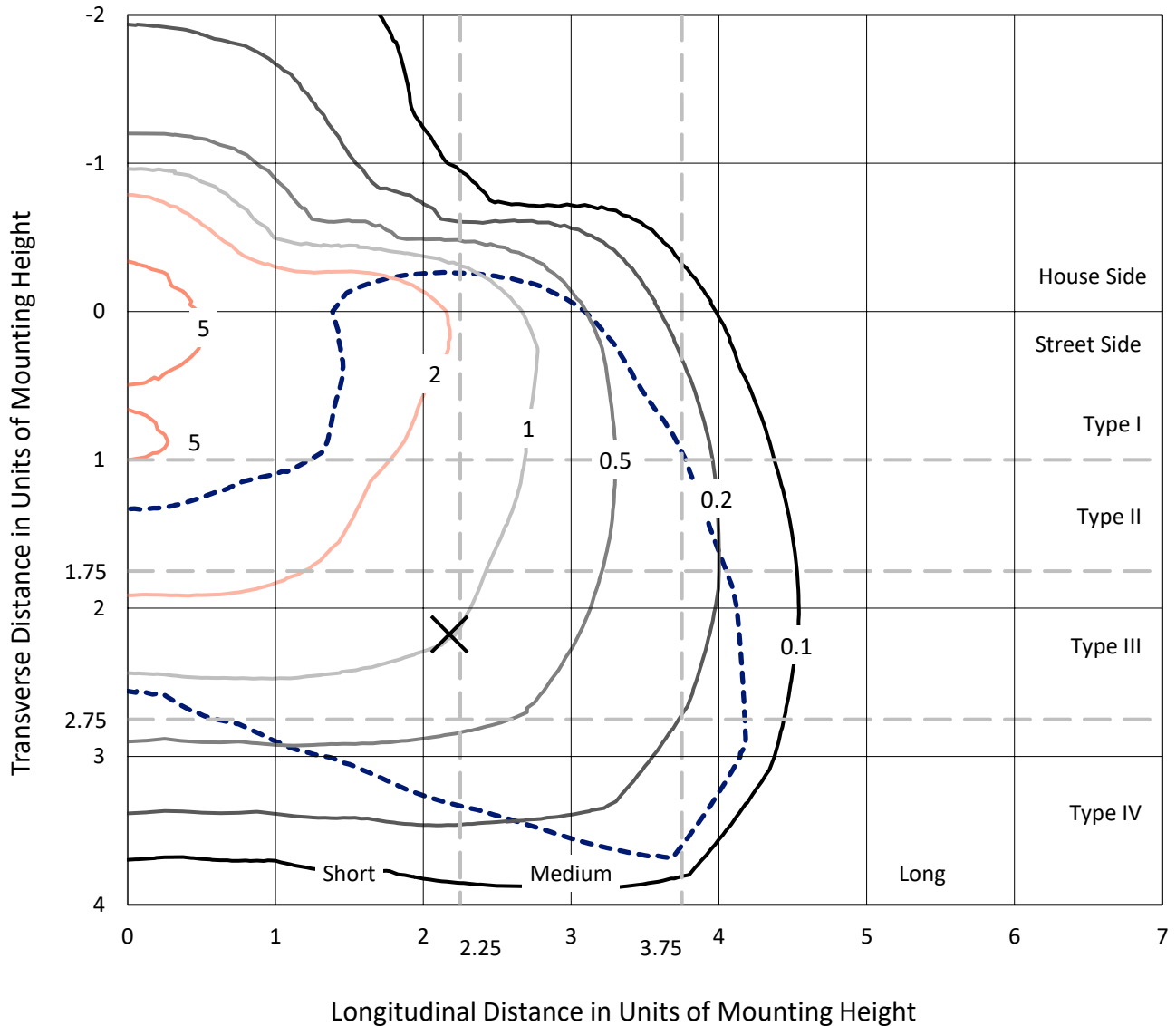
Lumens per Lamp: N/A
Luminaire Lumens: 45581.6 lumens
Efficiency: N/A
Efficacy: 123.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 368.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Iso-Footcandle Lines of Horizontal Illumination

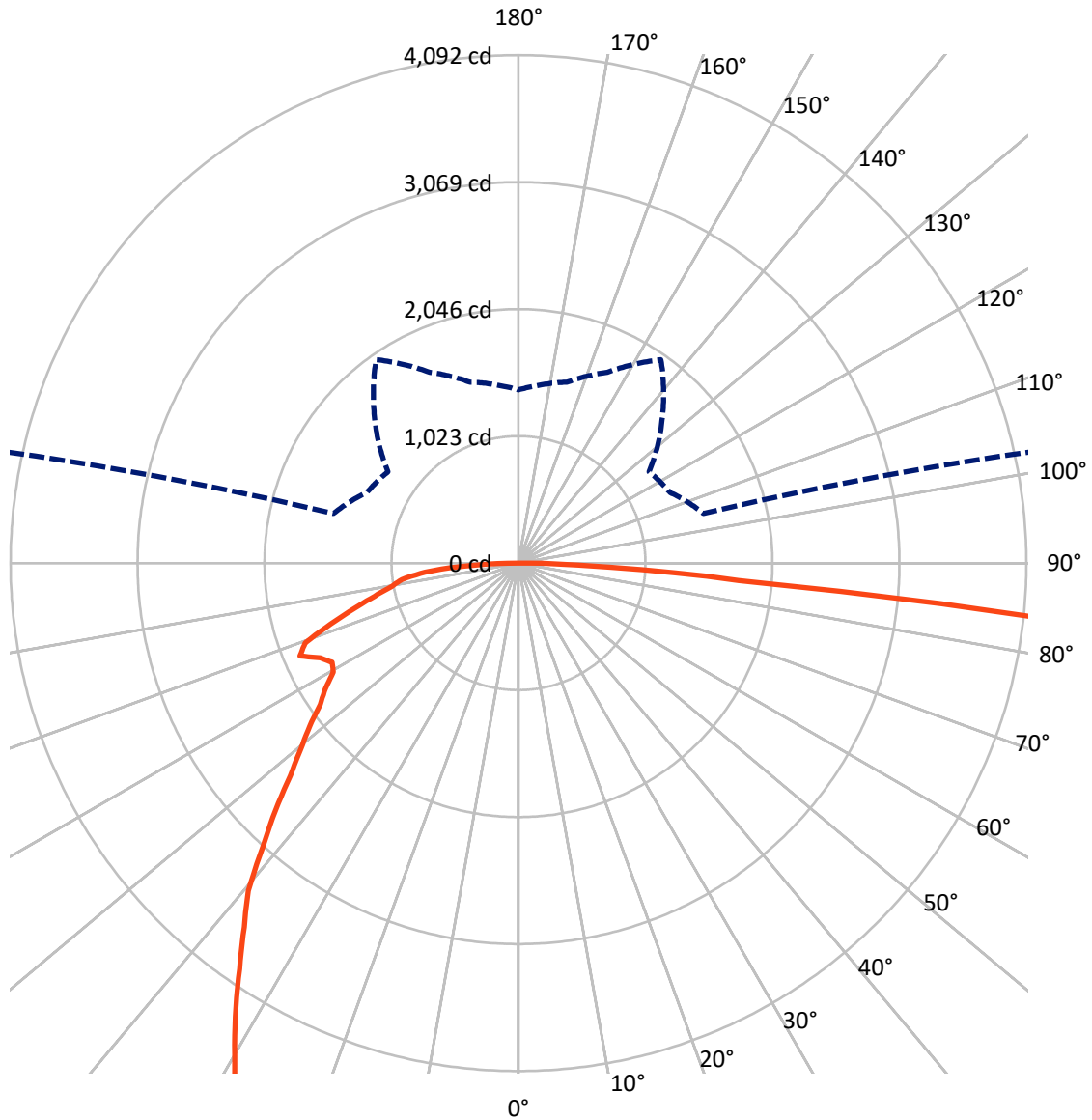
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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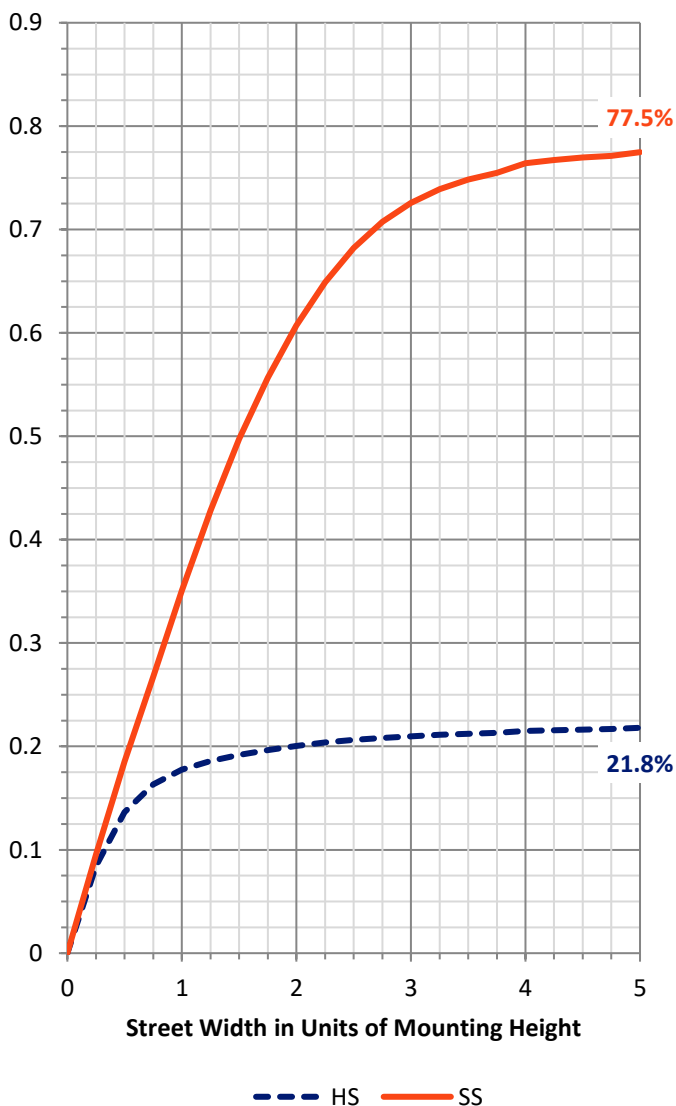
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10146.7	0.0	10146.7
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	35434.8	0.0	35434.8
	% Fixture	77.7	0.0	77.7
Total	Lumens	45581.6	0.0	45581.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	480.3	1.1
10°-20°	1598.1	3.5
20°-30°	2698.7	5.9
30°-40°	3734.6	8.2
40°-50°	5342.0	11.7
50°-60°	8616.1	18.9
60°-70°	12707.5	27.9
70°-80°	9227.8	20.2
80°-90°	1176.3	2.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	45581.6	100.0
0°-180°	45581.6	100.0

Coefficient of Utilization



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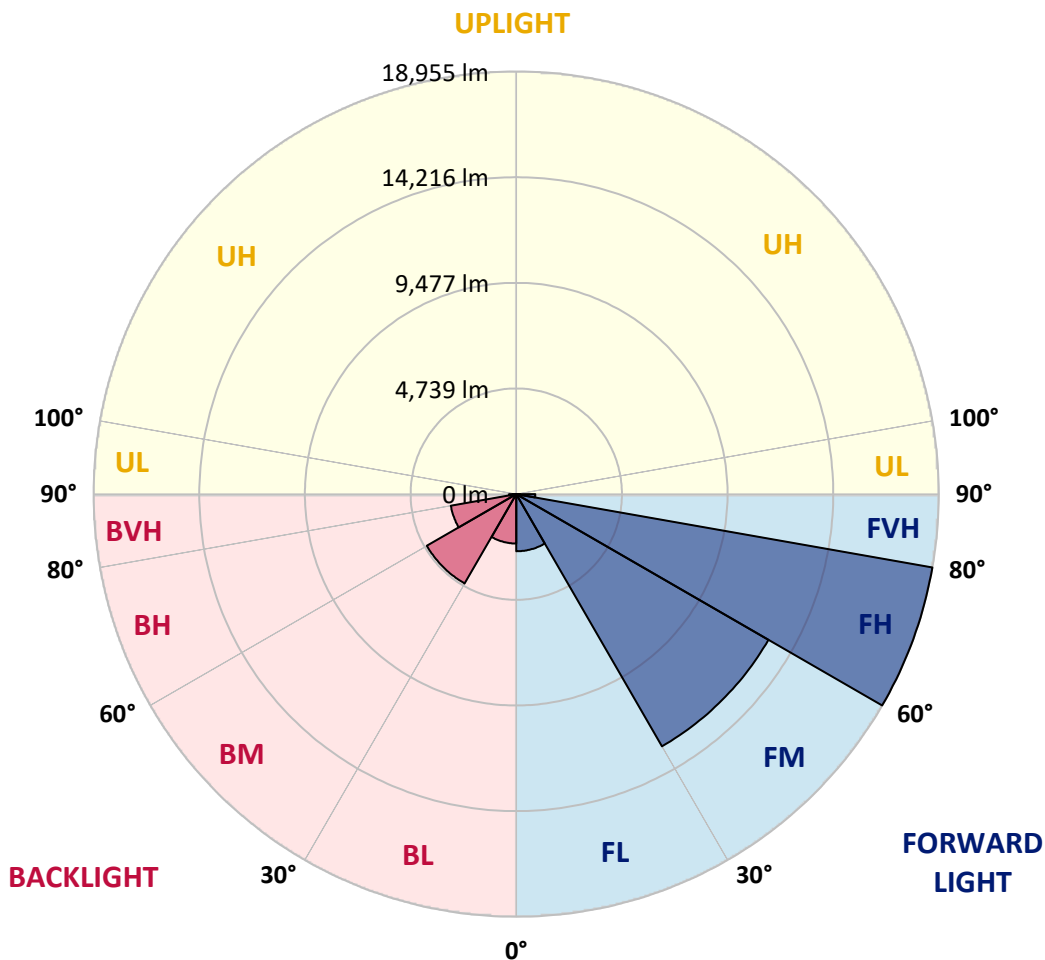
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2561.7	5.6			
FM (30°-60°)	13062.1	28.7			
FH (60°-80°)	18954.9	41.6			G5
FVH (80°-90°)	856.2	1.9			G5
BL (0°-30°)	2215.5	4.9	B3/2500		
BM (30°-60°)	4630.7	10.2	B3/5000		
BH (60°-80°)	2980.5	6.5	B4/5000		G4/5000
BVH (80°-90°)	320.1	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	4694.1	4694.1	4694.1	4694.1	4694.1	4694.1	4694.1	4694.1	4694.1	4694.1	4694.1
2.5°	4944.8	4974.2	4944.8	4939.8	4890.7	4856.3	4885.8	4841.5	4792.4	4772.7	4728.5
5°	5397.0	5401.9	5347.8	5352.7	5249.5	5141.4	5161.0	5028.3	4885.8	4831.7	4743.2
7.5°	5859.0	5804.9	5726.3	5701.7	5539.5	5421.5	5406.8	5288.8	5067.6	4944.8	4821.9
10°	6158.8	6178.5	6050.7	5942.6	5804.9	5662.4	5657.5	5436.3	5308.5	5126.6	4969.3
12.5°	6424.2	6429.2	6321.0	6149.0	5977.0	5800.0	5824.6	5726.3	5510.0	5338.0	5180.7
15°	6630.7	6601.2	6483.2	6325.9	6144.1	6006.5	5991.7	5908.1	5726.3	5583.7	5323.2
17.5°	6689.7	6674.9	6557.0	6389.8	6212.9	6109.7	6149.0	6011.4	5937.6	5809.8	5559.2
20°	6576.6	6542.2	6522.6	6335.8	6208.0	6198.1	6163.7	6193.2	6070.3	5952.4	5770.5
22.5°	6370.2	6355.4	6345.6	6198.1	6139.2	6183.4	6242.4	6286.6	6267.0	6153.9	5947.5
25°	6158.8	6227.6	6163.7	6094.9	6178.5	6291.5	6276.8	6419.3	6419.3	6384.9	6212.9
27.5°	6306.3	6262.0	6212.9	6178.5	6208.0	6384.9	6375.1	6547.1	6611.0	6547.1	6350.5
30°	6674.9	6630.7	6488.1	6335.8	6296.5	6488.1	6537.3	6689.7	6719.2	6561.9	6394.8
32.5°	7368.0	7343.4	7117.3	6670.0	6429.2	6537.3	6561.9	6733.9	6709.3	6611.0	6542.2
35°	8395.3	8311.7	7997.1	7240.2	6709.3	6601.2	6537.3	6674.9	6768.3	6719.2	6655.3
37.5°	9520.9	9427.5	9039.2	8080.7	7215.6	6773.2	6724.1	6837.1	6945.3	6920.7	6788.0
40°	10597.3	10597.3	10248.3	9132.6	7967.6	7191.0	7200.9	7073.1	7171.4	7127.1	7151.7
42.5°	11659.0	11619.7	11477.1	10366.3	8773.7	7889.0	7731.7	7412.2	7589.2	7574.4	7608.8
45°	12735.4	12706.0	12666.6	11516.5	9928.8	8832.7	8749.2	8174.1	8336.3	8267.5	8414.9
47.5°	13595.6	13630.0	13630.0	12799.3	11162.6	10091.0	9968.2	9058.8	9368.5	9402.9	9437.3
50°	14328.0	14342.7	14328.0	14023.2	12538.8	11531.2	11280.5	10356.5	10666.1	10936.5	11251.0
52.5°	15340.5	15360.2	15291.4	15173.4	14406.6	13045.1	12764.9	11737.6	12371.7	12656.8	13222.1
55°	16589.0	16441.6	16313.8	16402.2	16200.7	14711.4	14421.4	13163.1	14116.6	14495.1	15625.6
57.5°	16820.0	16947.8	17272.2	17975.1	18265.1	16333.4	16166.3	14912.9	16087.7	16417.0	18304.4
60°	17636.0	17424.6	18220.9	19744.6	20069.0	18447.0	18274.9	16829.9	18048.8	18392.9	20776.8
62.5°	18171.7	18161.9	19341.6	21150.4	21887.7	20639.2	20290.2	19321.9	20167.3	20501.6	23470.4
65°	18014.4	18157.0	20250.9	21976.1	23406.5	23131.2	22929.7	21465.0	22580.7	22551.2	25225.1
67.5°	16579.2	16982.2	19675.8	22570.9	25667.5	26168.9	26105.0	24478.0	24541.9	23917.7	26006.7
70°	14588.5	14450.9	17242.7	21951.6	26798.0	29771.7	29757.0	26719.4	26306.5	24217.5	23765.3
72°	11206.8	11054.4	13349.9	18850.0	26203.3	31211.9	31654.3	28272.6	26286.8	22973.9	19631.6
72.5°	10174.6	10041.9	12327.5	17744.1	25544.6	31585.5	31379.0	28331.6	26080.4	22389.0	18338.8
75°	4684.2	4531.9	6158.8	10862.7	19926.5	27987.5	28690.4	26512.9	22777.3	17822.7	10985.6
77.5°	1395.9	1351.7	1980.9	4384.4	11580.4	20619.5	20889.9	20005.1	15900.9	9761.7	4074.8
80°	776.6	781.5	1022.4	1641.7	5092.2	11919.5	12892.7	12357.0	7800.5	3224.4	1356.6
82.5°	432.5	457.1	639.0	973.2	2339.7	5470.7	5888.5	5677.1	2821.4	1513.9	742.2
85°	226.1	235.9	334.2	521.0	1327.1	1730.2	1779.3	1907.1	1464.7	1032.2	398.1
87.5°	88.5	88.5	122.9	216.3	491.5	535.8	481.7	584.9	840.5	668.5	196.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4694.1	4694.1	4694.1	4694.1	4694.1	4694.1	4694.1	4694.1	4694.1	4694.1	4694.1
2.5°	4767.8	4728.5	4723.6	4659.7	4679.3	4625.3	4630.2	4620.3	4625.3	4615.4	4590.9
5°	4743.2	4713.7	4630.2	4684.2	4635.1	4703.9	4758.0	4738.3	4753.1	4748.1	4753.1
7.5°	4777.6	4738.3	4728.5	4699.0	4743.2	4772.7	4817.0	4939.8	4930.0	4944.8	4974.2
10°	4880.9	4836.6	4807.1	4851.4	4826.8	4920.2	4969.3	5033.2	5146.3	5151.2	5092.2
12.5°	5082.4	5052.9	4993.9	5003.7	5087.3	5116.8	5146.3	5185.6	5259.3	5244.6	5298.7
15°	5313.4	5249.5	5215.1	5205.3	5224.9	5259.3	5254.4	5293.7	5333.1	5367.5	5352.7
17.5°	5480.5	5397.0	5406.8	5455.9	5451.0	5441.2	5377.3	5357.6	5377.3	5397.0	5387.1
20°	5652.6	5662.4	5588.7	5544.4	5524.8	5426.5	5377.3	5318.3	5259.3	5288.8	5333.1
22.5°	5868.8	5824.6	5716.5	5583.7	5485.4	5426.5	5274.1	5170.9	5170.9	5200.3	5185.6
25°	6114.6	6021.2	5834.4	5593.6	5470.7	5220.0	5111.9	5097.1	5057.8	5102.0	5121.7
27.5°	6306.3	6222.7	5967.1	5559.2	5220.0	5018.5	4954.6	4934.9	4998.8	5003.7	5082.4
30°	6384.9	6360.4	5986.8	5470.7	4964.4	4640.0	4600.7	4689.2	4758.0	4861.2	4866.1
32.5°	6488.1	6498.0	6016.3	5264.2	4630.2	4305.8	4246.8	4354.9	4551.5	4635.1	4699.0
35°	6660.2	6709.3	5991.7	5008.7	4276.3	3966.6	3956.8	3986.3	4178.0	4325.4	4409.0
37.5°	6960.0	6950.2	5986.8	4703.9	3996.1	3671.7	3593.1	3602.9	3730.7	3853.6	3838.8
40°	7363.1	7323.7	5972.0	4305.8	3632.4	3421.0	3288.3	3239.2	3229.3	3194.9	3204.8
42.5°	7913.6	7834.9	5967.1	3902.7	3303.1	3077.0	2983.6	2855.8	2762.4	2585.4	2595.3
45°	8680.4	8542.7	5839.3	3524.2	2978.6	2791.9	2649.3	2555.9	2354.4	2133.2	2133.2
47.5°	9864.9	9417.6	5844.2	3106.4	2664.1	2511.7	2413.4	2251.2	2034.9	1858.0	1838.3
50°	11609.9	10587.5	5677.1	2777.1	2408.5	2305.3	2202.0	2015.3	1808.8	1685.9	1700.7
52.5°	13861.0	12332.4	5672.2	2482.2	2207.0	2133.2	2020.2	1853.1	1700.7	1622.0	1592.5
55°	16544.8	14642.6	5849.2	2241.4	2000.5	1961.2	1912.0	1774.4	1627.0	1558.1	1553.2
57.5°	19292.4	16898.7	6134.2	2069.3	1823.6	1853.1	1818.6	1710.5	1592.5	1513.9	1504.1
60°	21735.3	18687.8	5559.2	1862.9	1666.3	1730.2	1779.3	1685.9	1622.0	1617.1	1582.7
62.5°	23578.5	19454.6	4227.1	1705.6	1582.7	1700.7	1833.4	1892.4	1862.9	1902.2	1907.1
65°	24251.9	18992.6	2909.8	1622.0	1518.8	1769.5	2064.4	2044.7	1872.7	1799.0	1838.3
67.5°	23308.2	17119.9	2157.8	1523.7	1474.6	1912.0	2197.1	1951.4	1690.9	1681.0	1651.5
70°	20044.4	14509.9	1759.7	1420.5	1400.8	1833.4	2138.1	1808.8	1592.5	1528.6	1499.2
72°	15969.7	11300.2	1543.4	1346.8	1282.9	1636.8	2000.5	1695.8	1509.0	1430.3	1395.9
72.5°	14578.7	10474.4	1513.9	1312.4	1258.3	1592.5	1931.7	1661.4	1489.3	1420.5	1366.4
75°	7997.1	5362.6	1332.0	1204.2	1061.7	1376.3	1789.2	1558.1	1405.8	1307.5	1297.6
77.5°	2973.7	2079.2	1150.2	1066.6	919.2	1189.5	1627.0	1479.5	1278.0	1155.1	1130.5
80°	1140.3	1096.1	938.8	899.5	771.7	1042.0	1499.2	1327.1	1086.3	963.4	924.1
82.5°	693.1	639.0	712.7	702.9	589.8	948.6	1410.7	1243.6	963.4	781.5	757.0
85°	378.5	378.5	496.4	476.8	412.9	757.0	1066.6	825.8	609.5	501.4	511.2
87.5°	167.1	196.6	265.4	250.7	226.1	427.6	521.0	437.5	304.7	206.4	221.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)